

# MEASLES UPDATE

## National Immunization Program (NIP), Centers for Disease Control & Prevention Measles Activity in U.S. through Week 23 (ending June 7, 2003)

No. of confirmed measles cases reported to MMWR for 2003: 17  
 No. of confirmed measles cases reported to MMWR Wk 23, 2002: 13  
 No. of confirmed measles cases reported to NIP as of 6/13/03: 27  
 Current outbreaks (outbreak = 3 or more linked cases) 0

As of Week 23, 2003, a cumulative total of 17 confirmed measles cases were reported for publication in the MMWR compared to 13 cases reported by Week 23 of last year. One of the 17 cases was in error (test record) that will be deleted in Week 24. Eleven other measles cases have been reported to the National Immunization Program (NIP) but not yet electronically transmitted to the MMWR. To date NIP has been notified of 27 confirmed cases in 9 states. All known confirmed cases (N=27) are listed by date of rash onset in Table below. Eighteen of 27 (or 66% of cases) are import associated.

Rubella and Mumps activity will be included with future measles updates. Please go to end of the document for current RUBELLA and MUMPS morbidity.

Send any questions or comments to Dr. Mark Papania, Team Leader for Measles Mumps Rubella Activity at the National Immunization Program or to Ms. Susan Redd at NIP via e-mail to: [sbr1@cdc.gov](mailto:sbr1@cdc.gov); phone (404) 639-8763; or fax (404) 639-8665. We appreciate knowing of any new MMR activity in your project area. For measles genotyping results, new publications, press releases etc., please visit the CDC Measles Lab website: <http://www.cdc.gov/ncidod/dvrd/revb/measles/>

| #  | Proj | Age /dob         | Rash onset Date | Vax hx              | Spread Cases?            | Reported To MMWR? | Viral Specimens Received at CDC?                  | MEASLES CONFIRMED as of June 13, 03<br>Comments / Source Information  |
|----|------|------------------|-----------------|---------------------|--------------------------|-------------------|---|---|
| 01 | NYC  | 24-yr-old        | 1/19/03         | Unk                 | No                       | No                | No  | Single IMPORT/Philippines<br>Foreign visitor arrived in NYC on 1/17/03. Known exposure to measles in the Philippines.   |
| 02 | AZ   | 4-yr-old         | 1/27/03         | No                  | No                       | Yes               | Yes, Negative (collected 8 days after rash onset) | Single IMPORT/Thailand<br>Maricopa Co. resident returned to U.S. on 1/23/03 after 7-wk stay in Thailand.  |
| 03 | MI   | 25-yr-old female | 1/27/03         | Yes, @15 mos of age | No                       | Yes               | No  | Possible 2- case chain<br>Source of infection unknown – common source of infection with case below is likely. Case works in medical setting (Wayne County).   |
| 04 | MI   | 10-mo-old female | 1/29/03         | No                  | No                       | Yes               | Yes, t. s., no results                            | Unknown source – possible common source of infection as above MI 25 yr old.   |
| 05 | IL   | 11-mo-old        | 3/7/03          | No                  | No                       | No                | Yes   | Single IMPORT in an 11-month-old. This U.S. born child was in India from 1/24 to 3/8/03, returning to U.S. 1 day after rash appeared. Three return flights involved over 3/7-8. Last flight was from Amsterdam to Chicago on 3/8/03 via Singapore Airlines Flight SQ36. Child went directly to MD's office then admitted to hospital. |
| 06 | PA   | 17 yr old male   | 3/21/03         | Yes, 2 doses Egypt  | Yes, 10                  | No                | No  | IMPORT from Lebanon.<br>Source for Delaware County, PA outbreak at private boarding school (grades 7-12). He was born in Egypt; lived in Saudi Arabia and Egypt; vaccinated in Egypt 7/23/86 & 8/7/99.  |
| 07 | OH   | 36 yr old male   | 3/24/03         | Yes, 1 dose         | Yes, his 11-mo-old child | Yes               | No  | This IMPORT traveled to Paris then Rome during 3/6 to 3/14. Rash onset 10 days after return to U.S. He is the source of infection for his unimmunized 11 mo-old child. See IgM+ 11-mo-old below with rash onset 4/3. Imported 2-case chain.   |
| 08 | PA   | 13 year old male | 4/2/03          | No, relig           |                          | Yes               | Yes, D4   | Private boarding school outbreak. Traceable to Import – lives in same dorm as   |

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|----|------|----------------------------------|-----------------|-----------------------|---------------|--------------------------|----------------------------------|--|
|    |      |                                  |                 | exemption             |               |                          |                                  | Case 1 (import from Lebanon). Unimmunized student, religious exemption. Hospitalized 7 days.   |
| 09 | OH   | 11-mo-old                        | 4/3/03          | No                    | Unk           | Yes                      | Unk                              | Traceable to an import. 2-case chain with imported source.   |
| 10 | PA   | 13 year old male                 | 4/3/03          | No, relig exemption   | Unk           | Yes                      | Yes                              | Private boarding school outbreak. Traceable to import – lives in same dorm as Case 1 (Lebanon). Unimmunized student with religious exemption. Hospitalized 7 days.   |
| 11 | PA   | 27 year old male<br><br>dob 4/76 | 4/3/03          | Yes, 1 dose 5/77      | Unk           | Yes                      | No                               | Private boarding school outbreak. Houseparent with hx of 1 dose. Vaccination history verified by his school record showing 1 dose on 4/17/77 (@ 12 mos). Traceable to import.  |
| 12 | PA   | 17-yr-old male 'KK' dob 3/87     | 4/5/03          | Yes, 2 doses in Egypt | Unk           | No                       | Yes                              | Outbreak related. Traceable to imported case. This student had rec'd 2 doses of vaccine in Egypt on 11/8/92 and 12/6/97. He had not traveled to Lebanon with the source case as earlier said. No international travel.                             |
| 13 | PA   | Teen Male                        | 4/5/03          | Yes                   |               | Yes                      |                                  | Outbreak related<br>Traceable to import  |
| 14 | NYS  | 39-yr old male                   | 4/9/03          | Unk                   | No            | Yes                      | Yes                              | Source unknown<br>Works for an import goods co. in NYC   |
| 15 | PA   | 18 yr old male                   | 4/15/03         | Yes                   |               | Yes                      |                                  | Outbreak related Delaware Co. Traceable to import.   |
| 16 | PA   | 17 yr old male                   | 4/15/03         | Yes                   |               | No                       |                                  | Outbreak related Delaware Co. Traceable to import.   |
| 17 | PA   | 18 yr old male                   | 4/15/03         | Yes                   |               | No                       |                                  | Outbreak related Delaware Co. Traceable to import  |
| 18 | CA   | 22-yr-old male                   | 4/16/03         | No                    | No            | No                       | State Lab will send to CDC       | Single IIMPORT from Italy<br>U.S. resident<br>Returned from Italy to San Francisco on 4/13/03  |
| 19 | NYC  | 13 mo old male                   | 4/18/03         | No                    | Yes           | No                       | Yes, D4                          | Outbreak related Delaware Co. PA Infected by PA student in NYC on 4/5  |
| 20 | NYC  | 33 yr old female                 | 4/28/03         | Unk                   | No            | No                       | Yes                              | Outbreak related Delaware Co., PA Russian immigrant who lives in same building with NYC 13 mo old w/rash 4/18/03   |
| 21 | HI   | 49 yr old male                   | 4/20/03         | Unk                   | Yes, 2        | Yes                      | No                               | Outbreak of 3 in Honolulu family<br>Source unknown. Works in airline catering  |
| 22 | NC   | 1 yr old                         | 4/23/03         | Unk                   | Unk           | It will be sent in Wk 24 | No                               | Single Import from India in Hoke County<br>Resides in USA, sick after return pm 4/19<br>Following 5 week stay in India; no day-care<br>No siblings; Lab draw 4/28; rubella negative  |
| 23 | HI   | 9 mo old female                  | 4/28/03         | No                    | Unk           | Yes                      | No                               | Outbreak related in Honolulu<br>Infected by 49-year-old w/onset 4/20   |
| 24 | HI   | 26 yr old male                   | 5/3/03          | Unk                   | Unk           | Yes                      | No                               | Outbreak related in Honolulu<br>Infected by 49-year-old w/onset 4/20   |
| 25 | HI   | 44 yr old female                 | 5/4/03          | Unk                   | Unk           | Yes                      | No                               | No direct link to above 3- cases in Honolulu.<br>Employed as a caregiver for elderly couple.<br>Source unknown   |
| 26 | HI   | 43 yr old female                 | 5/13/03         | Unk                   | Unk           | Yes                      | No                               | Not linked to above 3-cases in Honolulu.<br>Person works in a gift shop in tourist area.   |
| 27 | NYS  | 39 yr old male                   | 5/27/03         | Unk                   | No            | No                       | Yes                              | Tompkins County, Upstate NY<br>U.S. resident, no source identified.<br>Works in Ithaca, met case definition<br>Hosp 6 days, URI, fever of 105, rash 8 days.<br>IgM+ at state and private lab<br>Viral specimen collected 14 days out (urine)<br>To |

| 2002 Measles Outbreaks (3 or more linked cases) |          |                               |                                    |                     |   | Shaded= outbreak was imported  |
|---|----------|-------------------------------|------------------------------------|---------------------|---|--|
|   | Proj     | Location(s)                   | 1 <sup>st</sup> & Last Rash Onsets | # Conf Cases        | Age Range   | Comments   |
| 1   | PA & NYC | Montgomery Co., PA<br>NYC, NY | 3/21/03 – 4/28/03                  | 11<br>9 PA<br>2 NYC | 13 months to 33 years;<br>majority (8) are teenaged students in in PA | Source is Lebanon.<br>Outbreak setting is a private residential school in PA (8 teenagers & 1 staff) plus 2 spread cases in NYC (13 mo old exposed in drs. Office and a 33 years spread from 13 month old in apartment building).<br><br>Genotype = D4 |
| 2   | HI       | Honolulu                      | 4/20/03 - 5/3/03                   | 3                   | 49 years<br>9 months<br>26 years                                      | Source is unknown<br>No viral specimens collected.<br>Three relatives.<br>The 49-yr-old male works for airline caterers.   |

**Rubella** – 4 cases of rubella have been reported compared to 4 cases for the same period last year. One case-record was a test case that will be deleted. The other 3 appearing in MMWR were reported by Colorado, Hawaii, and Mississippi.

**Congenital Rubella Syndrome** – No cases have been reported.

**Mumps** – Twelve cases of mumps were reported to MMWR during Week 23. So far in 2003, 99 cases have been reported compared to 141 cases during the same period last year. Forty-seven (47%) of the cases are ≤15 years of age. Thirty-seven (37%) were reported by California, and seven (7%) reported by Washington. Of the 61 with case status known, 39 are confirmed and 22 are probable. Of the 55 cases with known race, 3 (5%) are Native American/Alaskan Native, 8 (15%) are Asian/Pacific Islander, 5 (9%) are African American, 37 (67%) are Caucasian and 2 (4%) are other. Of the 65 with known ethnicity, 22 (34%) are Hispanic.